

8. (Amended) The method of claim 7 wherein said set of reliable measurement results is amended by duplicating, at least once, the measurement results taken from any one of [said] three of said subject's fingers.

16. (Amended) A method for calibrating a non-invasive NIR blood glucose [device] measurement device to a subject, said method comprising the steps of:

- forming a data set comprising a plurality of optical measurement data terms for said NIR measurement device;
- augmenting said data set by forming cross-products terms using said data terms;
- forming a plurality of subsets having at least one specified number of members randomly selected from said data set;
- evaluating each of said plurality of subsets against a set of reliable blood glucose measurements for said subject;
- selecting one of said sets based on a preselected set of criteria, including the ability of the subset to predict said set of reliable blood glucose measurements for said subject; and
- using said selected set to calibrate said NIR blood glucose measurement device to said subject.